Transition…to What?

Dr. Bob Lightsey
DAU

Gen Usher (ACTD Eval 2003)

- **ACTDs Operationally Attractive but Transition Problems Common**

"At present, ACTDs are very attractive to operational commanders because they offer the possibility for transitioning new capabilities for meeting pressing existing or emerging threats into our forces in a much shorter time than the normal acquisition process. The main complaint of operational commanders is that even very successful ***ACTDs once completed often do not transition to acquisition well, if at all***. ACTDs should be 'allowed to fail' but a goal of successfully transitioning about 75% of those started seems appropriate to the Team."

Gen Usher (ACTD Eval 2003)

- **ACTDs Not Well Aligned with Acquisition Entry Requirements**

"A further reason for transition often not occurring is that ***ACTDs generally are not structured or managed in such a way as to align them for easy entry into the acquisition process.*** The objective should be to transition an ACTD seamlessly in to acquisition. Some ACTDs have neither a Transition Manager nor a Transition Plan, nor is the Service acquisition organization usually involved. ***ACTDs should include the accomplishment of the legitimate acquisition process entry requirements during the transition phase*****.** The Team believes that achievement of this alignment can be achieved without unduly burdening ACTD management or increasing overall cost."

So what is this acquisition process that you are expected to enter?

- Need to consider both the JCIDs process and the acquisition process to see the flow from

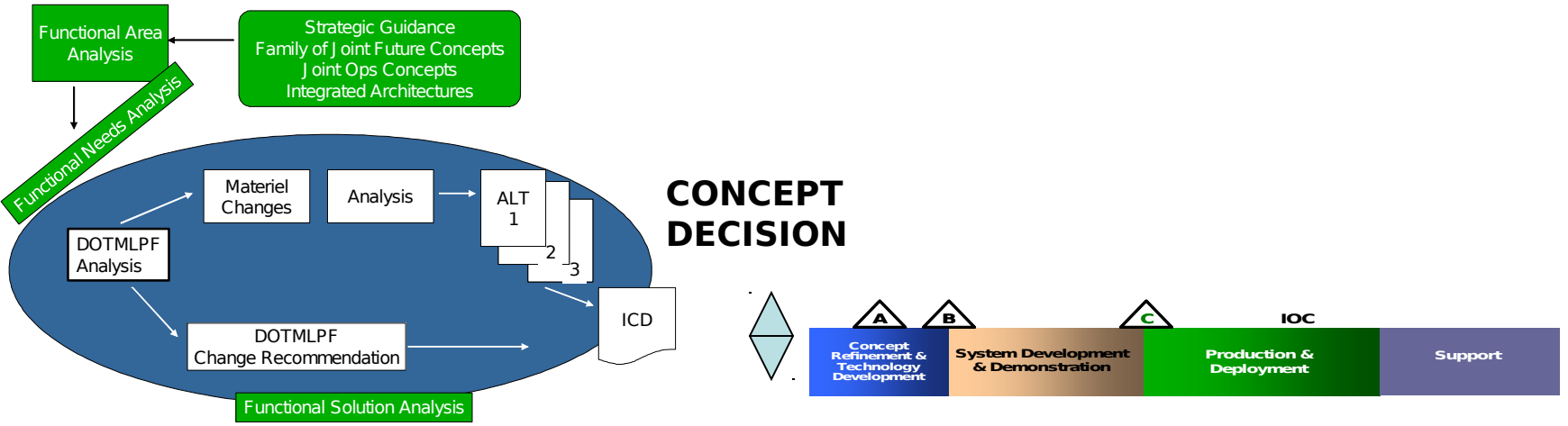
Capability Need

To

Acquisition Program

From Concept to System

JCIDS **ACQUISITION**



Net-Centric
Operations
Force Application
Battlespace
Awareness
Command &
Control
Focused Logistic
Force Protecti
Joint Trainin
Force Ma ement

JCIDS
CJCSM 3170.01

Strategic Guidance
Family of Joint Future Concepts
Joint Ops Concepts
Integrated Architectures

Functional Needs Analysis

DOTMLPF

Materiel Changes

Analysis

ALT 1

2

You will get a complete briefing from J-8 on JCIDS on Wedne

DOTMLPF Change Recommendation

ICD

Functional Solution Analysis

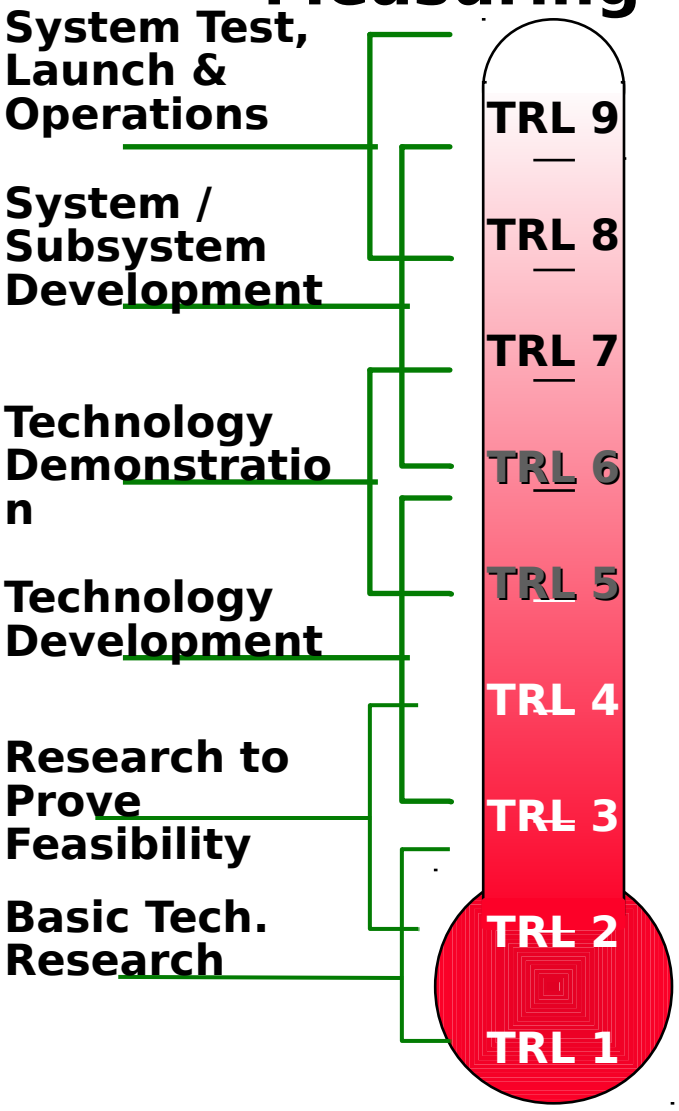
AC/JCTD ICD Equivalence

Per CJCSI 3170.01 (JCIDS):

“ An ICD is not required to initiate an ACTD. The ACTD candidate nomination process is sufficient, along with the FCB assessment, and JROC endorsement to justify the need for a ACTD.”

Technology Readiness Levels

Measuring Technology Maturity



TRL 9 — Actual system "flight proven" through successful mission operations

TRL 8 — Actual system completed and "flight qualified" through test and demonstration

TRL 7 — System prototype demonstration in a operational environment

TRL 6 — System/subsystem model or prototype demonstration in a relevant environment

TRL 5 — Component and/or breadboard validation in relevant environment

TRL 4 — Component and/or breadboard validation in laboratory environment

TRL 3 — Analytical and experimental critical function and/or characteristic proof-of-concept

TRL 2 — Technology concept and/or application formulated

TRL 1 — Basic principles observed and reported

As Defined in the Interim Defense Acquisition Guide

The DoD Acquisition Framework

DODI 5000.2

- TECH DEVELOPMENT STRATEGY APPROVED

- TECH RISK REDUCTION
- SELECT KEY TECHNOLOGIES
- PREP FOR ENGINEERING DEVELOPMENT

- DEVELOP SYSTEM OR INCREMENT OF CAPABILITY
- REDUCE INTEGRATION and MANUFACTURING RISK
- SERIOUS SYSTEMS ENG
- DEV TEST & OT PLANNING
- DEMO SYSTEM IN INTENDED ENVIRONMENT

- LRIP
- IOT&E
- RATE PRODUCTION
- IOC
- FOT&E

- SUSTAINMENT
- DISPOSAL

TRL Level

1 -2	3 - 5	6	7 - 8	9

From DDR&E On-line Guidance

http://www.acq.osd.mil/actd/transit.htm#Strategy

- **Transition Strategy**

An ACTD becomes a candidate for acquisition after the military utility of the capability is demonstrated. It is important that the transition into acquisition occur smoothly and without undue loss of momentum. To enable this, the transition objective must be identified at the time the ACTD is approved, and the transition strategy must be developed during the detailed planning for the ACTD, reflected in the ACTD Management Plan, and followed in major procurement actions for the ACTD.

Primary Transition Challenges

- Interoperability – can the AC/JCTD interoperate with other systems on the battlefield?
- Supportability – can the AC/JCTD be cost-effectively supported?
- Test and Eval – has the AC/JCTD team worked closely with the test community to plan exercises and tests?
- Funding – has the funding been planned for and approved?
- Systems engineering – is the AC/JCTD prepared to evolve a capability need document (CDD) and/or a system spec that accurately describes the function, performance, and interface requirements involved?
- Documentation – has the program worked with a receiving program office to define the documentation required to effect the transition?